

Autumn Term						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Block 1: Place Value within 10,000			Block 2: Addition and subtraction		Block 3: Multiplication and division
Small Steps	<ul style="list-style-type: none"> • Roman numerals to 1,000 • Numbers to 10,000 • Numbers to 100,000 • Numbers to one million • Read and write numbers to 1,000,000 	<ul style="list-style-type: none"> • Powers of 10 • Powers of 10 more or less • Partition numbers to 1,000,000 • Number line to 1,000,000 • Compare and order numbers to 100,000 	<ul style="list-style-type: none"> • Compare and order numbers to 1,000,000 • Round to the nearest 10, 100 or 1,000 • Round within 100,000 • Round within 1,000,000 	<ul style="list-style-type: none"> • Use mental strategies • Add whole numbers with more than four digits • Subtract whole numbers with more than four digits • Round to check answers • Use inverse operations (addition and subtraction) 	<ul style="list-style-type: none"> • Solve multi-step addition and subtraction problems • Compare calculations • Find missing numbers 	<ul style="list-style-type: none"> • Identify and find multiples • Find common multiples • Identify and find factors • Identify and find common factors
National Curriculum	<ul style="list-style-type: none"> • Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit • Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 • Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero • Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 • Solve number problems and practical problems that involve all of the above • Read roman numerals to 1000 (m) and recognise years written in roman numerals. 			<ul style="list-style-type: none"> • Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) • Add and subtract numbers mentally with increasingly large numbers • Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. 		<ul style="list-style-type: none"> • Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers • Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes

Autumn Term						
	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Block 3: Multiplication and division		Block 4: Fractions			
Small Steps	<ul style="list-style-type: none"> Understand and identify prime numbers Understand and identify square numbers Understand and identify cube numbers Solve problems with square and cube numbers 	<ul style="list-style-type: none"> Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 Multiples of 10, 100 and 1,000 	<ul style="list-style-type: none"> Find fractions equivalent to a unit fraction Find fractions equivalent to a non-unit fraction Recognise equivalent fractions Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions 	<ul style="list-style-type: none"> Compare fractions less than 1 Order fractions less than 1 Compare and order fractions greater than 1 Add fractions with the same denominator Subtract fractions with the same denominator 	<ul style="list-style-type: none"> Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number Add two mixed numbers 	<ul style="list-style-type: none"> Subtract fractions Subtract from a mixed number Subtract from a mixed number - breaking the whole Subtract two mixed numbers
National Curriculum	<ul style="list-style-type: none"> Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19 Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Multiply and divide numbers mentally drawing upon known facts Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes 		<ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $5\ 2 + 5\ 4 = 5\ 6 = 1\ 5\ 1$] Add and subtract fractions with the same denominator and denominators that are multiples of the same number 			

Spring Term						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Block 1: Multiplication and division			Block 2: Fractions (Calculating with fractions)		Block 3: Decimals and percentages
Small Steps	<ul style="list-style-type: none"> • Multiply up to a 4-digit number by a 1-digit number • Multiply a 2-digit number by a 2-digit number (area model) • Multiply a 2-digit number by a 2-digit number • Multiply a 3-digit number by a 2-digit number • Multiply a 4-digit number by a 2-digit number 	<ul style="list-style-type: none"> • Solve problems with multiplication • Short division • Divide a 4-digit number by a 1-digit number • Divide with remainders 	<ul style="list-style-type: none"> • Choose efficient division methods • Solve problems with division • Solve problems with multiplication and division 	<ul style="list-style-type: none"> • Multiply a unit fraction by an integer • Multiply a non-unit fraction by an integer • Multiply a mixed number by an integer • Calculate a fraction of a quantity • Calculate a fraction of an amount 	<ul style="list-style-type: none"> • Find the whole • Use fractions as operators • Solve problems involving fractions 	<ul style="list-style-type: none"> • Recognise decimals up to 2 decimal places • Explore equivalent fractions and decimals (tenths) • Explore equivalent fractions and decimals (hundredths) • Explore equivalent fractions and decimals • Recognise thousandths as fractions
National Curriculum	<ul style="list-style-type: none"> • Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers • Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context • Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign • Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates 			<ul style="list-style-type: none"> • Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams • Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number (Y4) 		<ul style="list-style-type: none"> • Read, write, order and compare numbers with up to 3 decimal places • Read and write decimal numbers as fractions • Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths • Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Spring Term						
	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Block 3: Decimals and percentages		Block 4: Perimeter and area		Block 5: Statistics	
Small Steps	<ul style="list-style-type: none"> ●Recognise thousandths as decimals ●Recognise thousandths on a place value chart ●Order and compare decimals (same number of decimal places) ●Order and compare any decimals with up to 3 decimal places ●Round to the nearest whole number 	<ul style="list-style-type: none"> ●Round to 1 decimal place ●Understand percentages ●Recognise percentages as fractions ●Recognise percentages as decimals ●Recognise equivalent fractions, decimals and percentages 	<ul style="list-style-type: none"> ●Find the perimeter of rectangle ●Find the perimeter of rectilinear shapes ●Find the perimeter of polygons ●Solve problems involving perimeter 	<ul style="list-style-type: none"> ●Calculate the area of rectangles ●Calculate the area of compound shapes ●Estimate area ●Solve problems involving perimeter and area 	<ul style="list-style-type: none"> ●Draw line graphs ●Read and interpret line graphs ●Read and interpret tables ●Explore two-way tables 	<ul style="list-style-type: none"> ●Read and interpret timetables
National Curriculum	<ul style="list-style-type: none"> ●Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents ●Read, write, order and compare numbers with up to 3 decimal places ●Solve problems involving numbers up to 3 decimal places ●Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place ●Recognise the per cent symbol (%) and understand that per cent relates to “number of parts per 100”, and write percentages as a fraction with denominator 100, and as a decimal fraction ●Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 		<ul style="list-style-type: none"> ●Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres ●Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) and square metres (m²), and estimate the area of irregular shapes ●Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling 		<ul style="list-style-type: none"> ●Solve comparison, sum and difference problems using information presented in a line graph ●Complete, read and interpret information in tables, including timetables 	

Summer Term						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Block 1: Shape			Block 2: Geometry - Position and direction		Block 3: Decimals
Small Steps	<ul style="list-style-type: none"> ● Understand and use degrees ● Classify angles ● Estimate angles ● Measure angles up to 180° ● Compare angles 	<ul style="list-style-type: none"> ● Draw lines and angles accurately ● Calculate angles around a point ● Calculate angles on a straight line ● Calculate lengths in shapes ● Calculate angles in shapes 	<ul style="list-style-type: none"> ● Explore regular and irregular polygons ● Identify 3-D shapes and their properties 	<ul style="list-style-type: none"> ● Read coordinates ● Plot coordinates ● Solve problems with coordinates ● Translate points and shapes ● Describe translations 	<ul style="list-style-type: none"> ● Understand how coordinates change during translations ● Identify lines of symmetry ● Explore reflection in horizontal and vertical lines 	<ul style="list-style-type: none"> ● Use known facts to add and subtract decimals within 1 ● Find complements to 1 ● Add decimals across 1 ● Subtract decimals across 1
National Curriculum	<ul style="list-style-type: none"> ● Identify 3-D shapes, including cubes and other cuboids, from 2-D representations ● Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles ● Draw given angles, and measure them in degrees (°) ● Identify angles at a point and one whole turn (total 360(°)) ● Identify angles at a point on a straight line and 1/2 a turn (total 180(°)) ● Identify other multiples of 90(°) ● Use the properties of rectangles to deduce related facts and find missing lengths and angles ● Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. 			<ul style="list-style-type: none"> ● Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed 		<ul style="list-style-type: none"> ● Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents ● Solve problems involving number up to 3 decimal places

Summer Term						
	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Block 3: Decimals		Block 4: Negative numbers	Block 5: Measurement - converting units		Block 6: Measurement- volume
Small Steps	<ul style="list-style-type: none"> • Add decimals with the same number of decimal places • Subtract decimals with the same number of decimal places • Add decimals with different numbers of decimal places • Subtract decimals with different numbers of decimal places • Use efficient strategies for adding and subtracting decimals 	<ul style="list-style-type: none"> • Explore decimal sequences • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply and divide decimals – missing values 	<ul style="list-style-type: none"> • Understand negative numbers • Count through zero in ones • Count through zero in multiples • Compare and order negative numbers • Find the difference between positive and negative numbers 	<ul style="list-style-type: none"> • Convert measurements in kilograms and kilometres • Convert measurements in millimetres and millilitres • Convert units of length • Convert fractional and decimals lengths 	<ul style="list-style-type: none"> • Convert between metric and imperial units • Convert units of time • Solve problems with converting units of time • Calculate with timetables 	<ul style="list-style-type: none"> • Measure in cubic centimetres • Compare volume • Estimate volume • Estimate capacity
National Curriculum	<ul style="list-style-type: none"> • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents • Read, write, order and compare numbers with up to 3 decimal places • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 • Solve problems involving number up to 3 decimal places • Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling 		<ul style="list-style-type: none"> • Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero 	<ul style="list-style-type: none"> • Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre] • Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints • Solve problems involving converting between units of time • Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling 		<ul style="list-style-type: none"> • Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] • Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling